CONTENTS OF VOLUME 13

Volume 13 No. 1 August 1989

A. HOWMAN, D. GROBLER, P. KEMPSTER, and A. SEED / Landsat and Limnologically Derived Water Quality Data: A Perspective 1

RUSSELL J. HALL, SUSAN D. HASELTINE, and PAUL H. GEISSLER / Monitoring Contaminant Exposure: Relative Concentrations of Organochlorines in Three Tissues of American Black Ducks 11

A. DEMON, M. DE BRUIN, and TH. WOLTERBEEK / The Influence of Pre-Treatment, Temperature and Calcium Ions on Trace Element Uptake by an Alga (*Scenedesmus pannonicus subsp. Berlin*) and Fungus (*Aureobasidium pullulans*) 21

MICHAEL A. KRSTICH and OTTO J. SCHWARZ / Characterization of ^{14}C-Naphthol Uptake in Excised Root Segments of Clover (*Trifolium pratense* L.) and Fescue (*Festuca arundinaceae* Screb.) 35

CHAO L. CHEN and GEORGE V. OKSZA-CHOCIMOWSKI / Periodicities of the Radon Level in Butte, Montana 45

YAN K. LAU / Measurement of Sulphur Gases in Ambient Air 69

FLOOR BROUWER and MALIN FALKENMARK / Climate-Induced Water Availability Changes in Europe 75

Book Review

J. R. Gronow, A. N. Schofield, and R. K. Jain (eds.), *Land Disposal of Hazardous Waste: Engineering and Environmental Issues* (M. J. BECKETT) 99

Volume 13 Nos. 2/3 November 1989

Special Issue: Statistical Methods for the Assessment of Point Source Pollution

Editorial vii

Publisher's Announcement viii

S. R. ESTERBY / Some Statistical Considerations in the Assessment of Compliance 103

A. SHARMA, D. WEATHERBE, and C. INNISS / A Proposed Misa Approach to Setting Limits and Assessing Compliance 113

HENRY D. KAHN and MARVIN B. RUBIN / Use of Statistical Methods in Industrial Water Pollution Control Regulations in the United States 129

R. W. CRABTREE, C. P. CROCKETT, and J. C. ELLIS / Continuous Effluent Consents: Modelling and Compliance Testing 149

A. E. WARN / Auditing the Quality of Effluent Discharges 165

KEITH W. HIPEL and A. IAN McLEOD / Intervention Analysis in Environmental Engineering 185

S. M. TANG and I. B. MACNEILL / The Effect of Autocorrelated Errors on Change-Detection Statistics 203

MAGNE ALDRIN, EIVIND DAMSLETH, and HANS VIGGO SÆBØ / Time Series Analysis of Unequally Spaced Observations – With Applications to Copper Contamination of the River Gaula in Central Norway 227

P. M. BERTHOUEX, WENJE LAI, and A. DARJATMOKO / A Statistics-Based System for Treatment Plant Operation 247

R. M. JONES, J. F. MACGREGOR, and K. L. MURPHY / State Estimation in Wastewater Engineering: Application to an Anaerobic Process 271

V. T. FAREWELL / Some Comments on Analysis Techniques for Censored Water Quality Data 285

A. H. EL-SHAARAWI, P. B. KAUSS, M. K. KIRBY, and M. WALSH / Inferences about the Variability of Means from Censored Data 295

D. CHAPMAN, W. RANDLE, and HUGH MONTEITH / Evaluation of Phosphorus Loads from Ontario Municipal Wastewater Treatment Plants 307

M. E. THOMPSON and A. H. EL-SHAARAWI / On the Estimation of Phosphorus from the Niagara River to Lake Ontario 323

A. H. EL-SHAARAWI and D. J. WILLIAMS / Status of the Niagara River Point Source Discharge Information: Sampling Design and Estimation of Loading 331

D. M. DOLAN and A. H. EL-SHAARAWI / Inferences about Point Source Loadings from Upstream/Downstream River Monitoring Data 343

R. PETER RICHARDS / Measures of Flow Variability for Great Lakes Tributaries 361

DONALD J. POULTON / Statistical Zonation of Sediment Samples Using Ratio Matching and Cluster Analysis 379

BYRON A. BODO / Robust Graphical Methods for Diagnosing Trend in Irregularly Spaced Water Quality Time Series 407

DANIEL CLUIS, CLAUDE LANGLOIS, RAYMOND VAN COILLIE, and CLAUDE LABERGE / Development of a Software Package for Trend Detection in Temporal Series: Application to Water and Industrial Effluent Quality Data for the St. Lawrence River 429

DAVID W. AVERILL / Statistical Software for Microcomputers – A User's View 443

Anouncement 463

Volume Contents 465

Author Index 467